



Thomas Hilbert
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December 1, 1994

Mr. Bernie Schorle
Remedial Project Manager
United State Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3590
Re: Additional Pump test in the vicinity of well nest B15/B15P/B15R

Dear Bernie:

Winnebago Reclamation Service would like to perform an additional pumping test to supplement information obtained from the pumping test performed at extraction well RW01. The work plan for the additional test would follow the procedures outlined in the Pumping Test Plan dated July 1994.

The location of the additional extraction well RW02 and 2" observation wells are presented on the enclosed plan sheet (SP-2) and accompanying detail sheet. Since there are no existing monitoring wells in the vicinity of the proposed extraction well three new observation wells will be installed to provide information on water level draw down during the pumping test. As in the original pumping test T3, T5 and RW02 will be sampled for the following list of parameters prior to the test:

TCL VOC's	Hardness	Alkalinity	Chloride
Ammonia	TSS	TDS	TOC
Iron	Arsenic	Manganese	Zinc
Nickel	Copper	BOD	

In addition, the pumping well (RW02) will be sampled at intervals during the test to delineate any changes in water quality which may occur during the pump test. It is anticipated that four samples will be collected during the test.

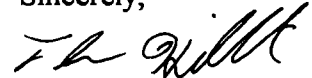
Extracted groundwater will be stored in the Fire Pond prior to disposal at the local sanitary district. This is the same storage facility that was utilized during the previous pumping test.

The extraction well will be constructed of 6" schedule 80 PVC High Flow screen (TIMCO™) and riser. Since the soil boring logs for the B15/B15R well nest are similar in description to the logs recorded for MW106/P1 well nest, a slot width of 0.05" with an appropriate filter pack will be utilized for the well screen. This width provides sufficient open area to allow pumping rates of 15.62 GPM/foot of well screen without exceeding an entrance velocity of 0.01 ft/sec. and is slightly narrower than the slot width used for RW01. The narrower slot width and filter pack were selected to provide an adequate safety factor to prevent infiltration of fine material.

We would like to begin drilling and installation of the extraction and observation wells on December 12, 1994. It is anticipated that the drilling and installation will take 2.5 days to complete.

If you have any questions or concerns regarding this additional work, please notify me as soon as it is possible.

Sincerely,

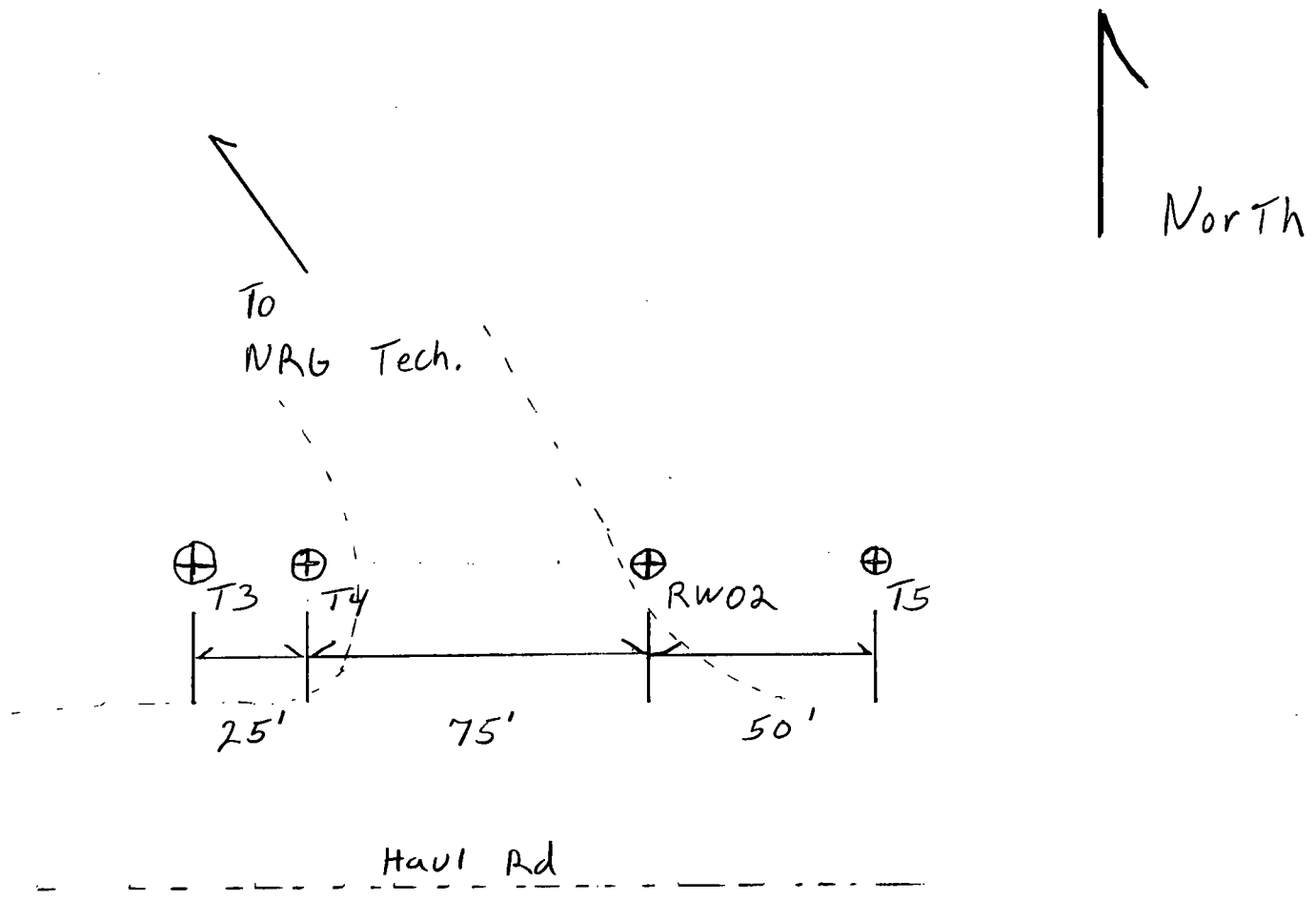


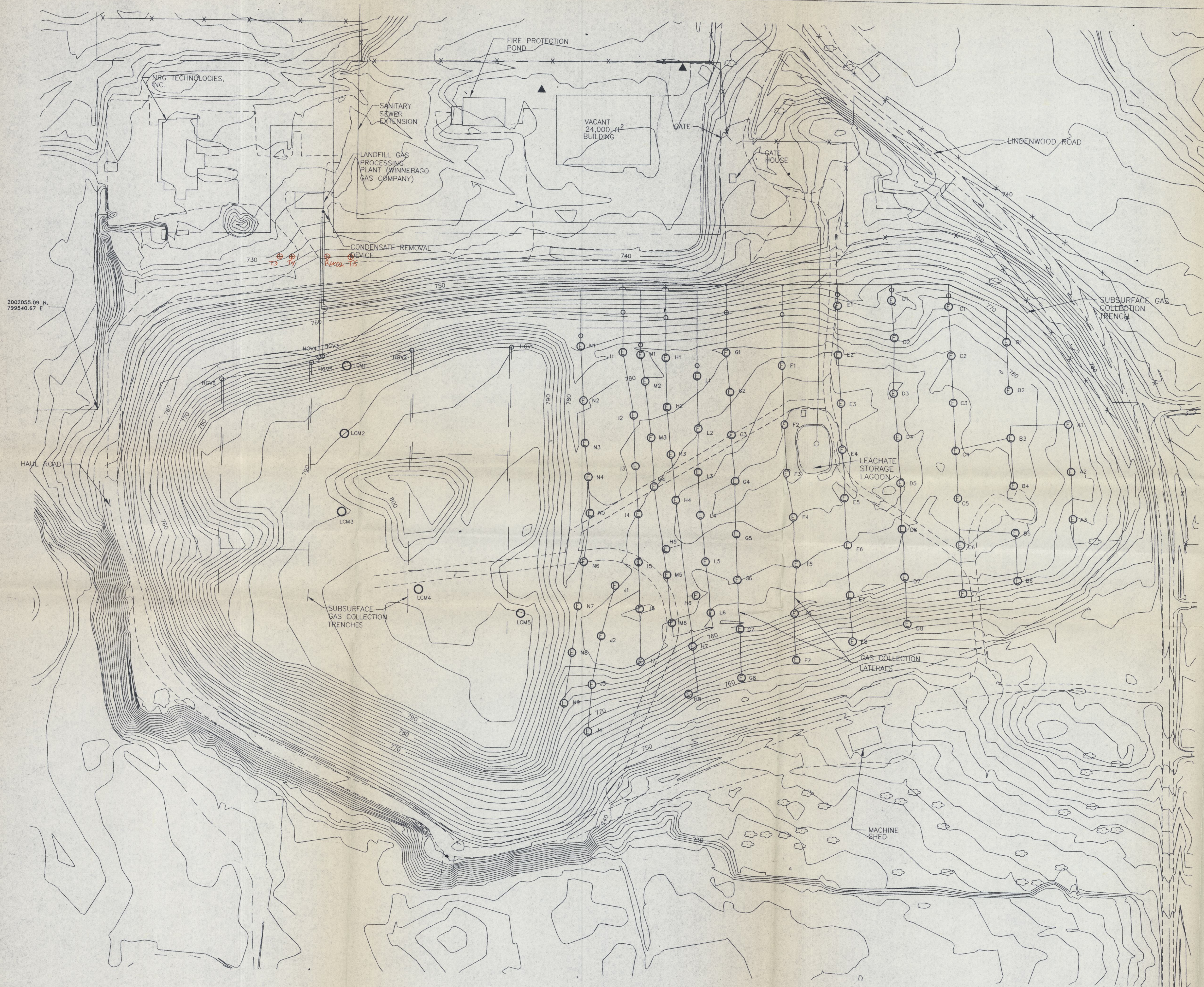
Thomas Hilbert

Enclosures: Plan Sheet SP-2 (existing gas and leachate collection system)
Detail sheet for well configuration

cc: Luda Voskov, PRC Environmental
Martin Hamper, Warzyn
Fred Nika, Illinois Environmental Protection Agency

Job	Page 1 Landfill	Computed By	T. #.	Date	12-5-94
Description	Pump Test 2	Checked By		Date	
Well Location Detail		Sheet	of		

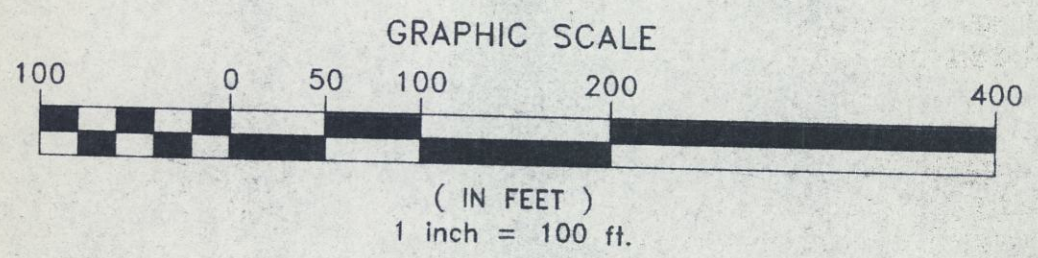
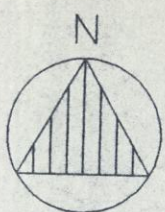




NOTES:

1. THIS DRAWING IS INTENDED TO DEPICT THE LAYOUT OF THE EXISTING GAS/LEACHATE COLLECTION SYSTEM. THE LOCATIONS OF ALL GAS COLLECTION LATERALS, MAINS, AND LEACHATE COLLECTION MANHOLES ARE APPROXIMATE.
2. SUBSURFACE GAS COLLECTION TRENCHES ARE CONSTRUCTED OF 8 IN. PVC PIPING INSTALLED IN A GRAVEL ENVELOPE WITHIN THE WASTE. FOR CLARITY, TRENCHES THAT ARE DIRECTLY ABOVE ANOTHER TRENCH HAVE BEEN SLIGHTLY OFFSET.
3. VERTICAL GAS/LEACHATE EXTRACTION WELLS ARE CONSTRUCTED OF VARYING SIZES OF PIPE, INSTALLED IN BOREHOLES BACKFILLED WITH GRAVEL. TWO 800 CFM COMPRESSORS ARE LOCATED IN THE LANDFILL GAS PROCESSING PLANT.
4. A 12" DRAINAGE LAYER EXISTS BENEATH THE ENTIRE UNIT, IMMEDIATELY ABOVE THE ASPHALT LINER. A NETWORK OF COLLECTION PIPING WAS INSTALLED IN THE SAND DRAINAGE LAYER IN THE NORTHWEST PORTION OF THE UNIT. LEACHATE COLLECTION MANHOLES CONNECT TO THIS PIPING NETWORK.
5. LEACHATE IS MANUALLY PUMPED FROM VERTICAL EXTRACTION WELLS AND LEACHATE COLLECTION MANHOLES ON A ROTATING BASIS. LEACHATE IS THEN TRANSFERRED TO THE LEACHATE STORAGE LAGOON OR DIRECTLY TO THE ROCK RIVER WATER RECLAMATION DISTRICT SEWER LINE.
6. ALL VERTICAL LEACHATE/GAS EXTRACTION WELLS WILL BE ABANDONED OR REMOVED UPON INSTALLATION OF THE PROPOSED GAS COLLECTION SYSTEM AS DETAILED ON SHEETS B-7 AND B-8. THE SUBSURFACE GAS COLLECTION TRENCHES MAY BE OPERATED IN CONJUNCTION WITH THE PROPOSED SYSTEM.

LEGEND	
	FIRE HYDRANT
	MANHOLE/CONTROL VALVE
	GAS EXTRACTION WELL
	FENCE
	CURRENTLY PERMITTED WASTE BOUNDARY
	100 YEAR FLOODPLAIN BOUNDARY
	GAS COLLECTION SYSTEM
	TREE



SUPPLEMENTAL PERMIT FOR EXISTING LANDFILL FACILITY WINNEBAGO RECLAMATION SERVICE, INC. PAGEL LANDFILL FACILITY ROCKFORD, WINNEBAGO COUNTY, ILLINOIS			
EXISTING GAS AND LEACHATE COLLECTION SYSTEM			
DRAWN BY:	DATE: JUNE 1994	SHEET NUMBER	
DESIGNED BY:	PROJECT #90-114	SP-2	
APPROVED BY:	FILE #90-114/B-6		

P.04

06.